

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/562,383  
Source: IFWP  
Date Processed by STIC: 1/9/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER: 10/562,383

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos     The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
  
- 2      Invalid Line Length     The rules require that a line not exceed 72 characters in length. This includes white spaces.
  
- 3      Misaligned Amino  
    Numbering     The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
  
- 4      Non-ASCII     The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
  
- 5      Variable Length     Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
  
- 6      PatentIn 2.0  
    "bug"     A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
  
- 7      Skipped Sequences  
    (OLD RULES)     Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
                                   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                                   (i)     SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
                                   (xi)  SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                                   This sequence is intentionally skipped  
  
                                   Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
  
- 8      Skipped Sequences  
    (NEW RULES)     Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence.  
                                   <210> sequence id number  
                                   <400> sequence id number  
                                   000
  
- 9      Use of n's or Xaa's  
    (NEW RULES)     Use of n's and/or Xaa's have been detected in the Sequence Listing.  
                                   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
                                   In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
  
- 10      Invalid <213>  
    Response     Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
  
- 11      Use of <220>  
    — )     Sequence(s)      missing the <220> "Feature" and associated numeric identifiers and responses.  
                                   Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
                                   (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
  
- 12      PatentIn 2.0  
    "bug"     Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
  
- 13      Misuse of n/Xaa     "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWP

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/562,383

DATE: 01/09/2006

TIME: 11:39:50

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Output Set: N:\CRF4\01092006\J562383.raw

3 <110> APPLICANT: Lofton-Day, Cathy; Model, Fabian; Sledziewski, Andrew;  
Rujan, Tamas;

4 Lewin, Joern; Distler, Juergen

6 <120> TITLE OF INVENTION: Methods and nucleic acids for the analysis of  
colon cell

7 proliferative disorders

W--> 0 <130> FILE REFERENCE:

C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/562,383

C--> 10 <141> CURRENT FILING DATE: 2005-12-23

12 <150> PRIOR APPLICATION NUMBER: PCT/US04/20336

13 <151> PRIOR FILING DATE: 2004-06-23

15 <150> PRIOR APPLICATION NUMBER: US 10/679,062

16 <151> PRIOR FILING DATE: 2003-10-03

18 <150> PRIOR APPLICATION NUMBER: US 10/603,138

19 <151> PRIOR FILING DATE: 2003-06-23

21 <150> PRIOR APPLICATION NUMBER: US 10/602,494

22 <151> PRIOR FILING DATE: 2003-06-23

24 <150> PRIOR APPLICATION NUMBER: EP 04090175.3

25 <151> PRIOR FILING DATE: 2004-05-06

27 <150> PRIOR APPLICATION NUMBER: EP 04090072.2

28 <151> PRIOR FILING DATE: 2004-02-27

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55 cggggatttg ggtacacgcc cctccagccc ccggggtgcc tgcggtgggg aaggatgtat 1020

*7-9*  
**Does Not Comply  
Corrected Diskette Needed**

56 cgccttcct ctgccctccc ctattggggt tggggtctta gtctgagagc gagtgagagc 1080

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Input Set : N:\DA\PTO.DA.txt

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Output Set: N:\CRF4\01092006\J562383.raw

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Input Set : N:\DA\PTO.DA.txt

Output Set: N:\CRF4\01092006\J562383.raw

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189	tggtagaatt	ctcgcctgcc	acgcggggag	cccgggttcg	attcccggcc	catgcagcac	3300
190	gcccctccat	tttgggtgct	cagcagcacc	aaggcgtagc	tcgctcgcgc	tctgcgcctt	3360
191	ccttacactc	ggggcgcgcg	agcgagtcgc	gcaccggctg	cgctccacgc	cgcgacggcc	3420
192	ctctgccttt	tcttccgtgc	ctctctcgac	tgacttaggg	atgagcctac	ccccgcacc	3480
193	cacacacctt	ggtgacaaca	acccctccag	acacgagagc	gcgccagaca	ccagaacttg	3540
194	gcagcctcct	ggtcctgttt	ctcttcattg	ccctgccacc	gcctctgccc	gacgcatttc	3600
195	acttcacgga	acaccgccag	gcaccacggg	cttgacgcca	ctcgaccacc	cccttctctt	3660
196	cacatttcac	cgcctcgcct	ctctc				3685
198	<210> SEQ ID NO: 4						
199	<211> LENGTH: 2407						
200	<212> TYPE: DNA						
201	<213> ORGANISM: Homo Sapiens						
203	<400> SEQUENCE: 4						
205	taaggtcttg	gtattctcag	gcagcaggga	caaggtgggc	ttttttctctg	gttgctaaac	60
206	ccacgtcaaa	gtcgagctca	gggactggag	ctcaagaaac	ccaccgcccc	ttctccagtc	120
207	cgaccgggga	cctgcatgca	cctctgccgt	gctgccctga	gtcctccaat	cctccacact	180
208	cttctctgtg	tatgtacacg	tctccaccca	ggcctgcaaa	agtcccagct	tcctccaggg	240
209	gcagggaccc	gcacgcgggc	ccagggtctg	gcacgcgggg	atgctgaaac	agggccaggc	300
210	ctggtttcca	gccgatcgtc	agagtcccaa	ggcccagcaa	ccttctctac	aaaggcctcg	360
211	ttaagaggcg	aggaacaag	agccgggaga	ggggcgcgga	acggcgggcg	ggacgaacga	420
212	ccagctccgc	gcctccggcc	agctgcgtcg	agccaggggc	accgcggctg	ttgtgcggct	480

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/562,383

DATE: 01/09/2006

TIME: 11:39:50

Input Set : N:\DA\PTO.DA.txt

Output Set: N:\CRF4\01092006\J562383.raw

213	ggaaatctag	gaatgggaag	gttcggggcc	tgtcgggctc	cggaggcagc	tggcgggtcg	540
214	tccctggcgg	cgttggagcg	gtcagtgcca	gccgggcacg	ggcgaccggg	tcgcccgggt	600
215	cgccctcaga	ccgtgactcc	cgaaaaacct	tgcgggcggg	gcgcgcccg	gccgtctctt	660
216	gccggaaggt	gcgagttagt	gcgctcgatt	gtgggcgggg	gcggaagag	gcgcgtttta	720
217	aagtggtaac	agatgggttt	cttatccaat	aggattaaaa	aatttgcct	taccggccg	780
218	accgcggaag	tagagtaggc	gggcggccaa	tggggacatg	atggggggcg	gagccgaggc	840
219	ctccgaagcg	gaagtgggtt	gctgttgagg	cggcgccatc	tttctcgagg	agctctcctg	900
220	ggcggctgaa	gaaggagctt	cttctccgga	gtgcgccggc	ggtggcgcc	gcggacctaa	960
221	ctagctccag	gttaggccga	gctttgcggg	aaagcagcgg	taagtcaggg	ccttgcagat	1020
222	gcgaggttta	ggcagcttcg	cggcctacag	aggcctcggc	ccgcgcctct	tgggggagcc	1080
223	gcgctgcgcg	gcttgaccca	gccgaggctt	tgcagcccgg	gacctcgagc	cagctctggt	1140
224	cgctcgcact	gccgtccgcg	cgggcgcacc	gagcccggct	tggcgccggc	aacagaagtt	1200
225	aggaggtctg	cgtctgggtc	tcggctcacc	ctggggggcc	gcggccatgg	ggcttagttc	1260
226	ctagcctagg	aagggaaaac	gagactctgg	gaggggcagg	aacgccccca	aggtcacttg	1320
227	gaaagtccgg	caggatgtgc	tgttaggggg	aagaccgggg	cagggttttt	gttccccgct	1380
228	gacgacgcct	cctttgtgtg	ttcgcccgcc	cgccccgcca	tcgtggggcc	tcgaggtttg	1440
229	ccgggggtcg	tgggcccgcg	ggcggggcct	tttgtaggtc	gggaggatct	gagtacgggt	1500
230	gcgggcctga	ccgtgggggg	gccgaggctg	cagtctaaaa	cttagtaggg	cctcgatttc	1560
231	cgggcgcgct	tccggggccc	ggctggtggt	tgggtggaac	tcgactgtg	aggcttgccg	1620
232	cccagccctg	caccgctcgg	gcccttcacc	gctctggcgc	gcctatagac	aggtgtatga	1680
233	agattctcac	gacccgaaaac	agagttgcta	gtaaaacacc	cttttccgcc	tttgatccat	1740
234	cggggaagag	ggaaaaggat	agagcttggg	caagccgttt	tggtagggat	ttcagctttt	1800
235	gtctttcact	tgtcagttcc	catagacgtt	cacaaactta	ataatcttcg	ttctgtttct	1860
236	gcaccaagtt	cttgagccag	acgtagggtc	tcagctctgg	agcctggctt	agactgtcca	1920
237	actgactggg	gagactgagg	tccagaaaag	tgaagtgttc	tgcccaaggt	cacatagcca	1980
238	gctattttgg	agcagatgag	gttaagtctt	acctgcaaga	tttgggtttt	gaattcattg	2040
239	accaggagtt	ttgggaccac	tgtcaataaa	agagacattg	aagggaatct	tttgttactt	2100
240	tcttgggtgat	ttgtttttta	atggacaagg	acatattggg	ttcagtttta	tctgtgagtt	2160
241	tgaggtgaaa	tagaggcatt	cgagtagcaa	gatatattgc	tggcttttgt	attgcctgaa	2220
242	tttgagcttc	caaaaatctt	actttaacac	atcgtttatt	gatcttttct	tgaattacta	2280
243	cctttgtgaag	gaccttttgt	aaacattggt	tttctaattc	tcataaaatc	ttaatgccat	2340
244	acgtaaacta	tttcttttta	tataatgtat	gcacatctgt	gctttgtaca	taaaatgagt	2400
245	aagattt						2407
247	<210> SEQ ID NO: 5						
248	<211> LENGTH: 2229						
249	<212> TYPE: DNA						
250	<213> ORGANISM: Homo Sapiens						
252	<400> SEQUENCE: 5						
254	tctttctctg	gcgctggctg	gtgcggggtg	gggtcaggtg	gagaagccgc	tctttgttaa	60
255	ggtgacagaa	cgtgctgggg	gtggggggcg	gggccagggc	cgggtgcaact	agggggccgc	120
256	tgccctttcc	tggacacagt	ggaagcttct	tcgcctcac	caaatttttg	tcctctttc	180
257	tgagggacct	gcttcaggc	agcacgcaag	ttgttgtccc	gggtttactc	cgcacccctc	240
258	tactgggtga	ggaaggagca	tcttgaatgg	agatgggggt	gtccccgggt	tatacatctg	300
259	cagagaagag	gtgtgccggg	ctgcacctct	ggaggcccg	gtaactgata	ttagagaaga	360
260	ccccgggtgc	agctgggaag	gctcactggc	tggaaagagg	tgccctctcc	ttccagcaaa	420
261	gggccctgtt	tgggaagggt	gcttctcacc	tgtctagtgg	caccacagga	cggctcggtt	480
262	ccactcgaat	ttccccggac	ggtatcatca	catagccggg	tcctcgaggt	gttgggttcc	540
263	caatccgatg	actgtcacct	cggtagggac	ctgtgctgat	ggccggagaa	ccctgcgctg	600
264	cgggcgcaca	tggccagggtg	gcgcctggca	ggcgacgtcc	gggtgcagga	cggcgctctt	660



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7

<210> 674

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223>

← needs explanation on <2237 line. Give source of genetic material  
(see item 11 on Error Summary sheet)  
17

<400> 674

gtatgtagtt gtgtggtt

<210> 675

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223>

← same error

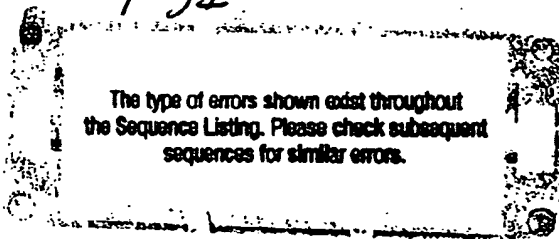
<400> 675

tttgagtatt cgtaggaa

The above sequences  
are samples of global  
errors

18

FyI



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<210> 1160  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220> NEVER has a response, it is a  
"header" only. Move this response  
to <223> line

<220> bisulfite treated  
<223> nucleic acid for analysis of methylation status of SEQ ID NO: 41  
<400> 1160

GAGATTGGAG TTTAATTTTG GA

22

change these letters to lower-case. All nucleotide  
sequences need to show lower-case letters for  
the nucleotides

The above is a sample of global error.



The type of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/562,383

DATE: 01/09/2006  
TIME: 11:39:51

Input Set : N:\DA\PTO.DA.txt  
Output Set: N:\CRF4\01092006\J562383.raw

*FYI*  
Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220>

to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:51; N Pos. 2126,2128,2131,2132  
Seq#:404; N Pos. 2126,2128,2131,2132  
Seq#:405; N Pos. 113,114,117,119  
Seq#:520; N Pos. 2126,2128,2131,2132  
Seq#:521; N Pos. 113,114,117,119